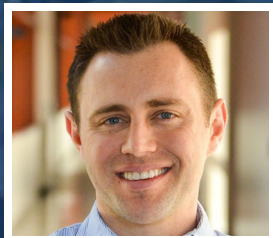


Proactive Healthcare From Home



Drew Hall

Assistant Professor, Electrical and Computer Engineering Department

CURRENT RESEARCH

Revolutionizing access to health care in developing countries

The future of sustainable healthcare is in home-centric healthcare and preventative care rather than hospital and reactive care. Dr. Drew Hall of University of California, San Diego passionately believes that healthcare should be accessible to even the most remote parts of our planet. With rapidly increasing health care costs, a constantly expanding population, and a limited supply of physicians, radical changes must be made for the healthcare system to remain sustainable while simultaneously improving the quality of care. A compelling solution to this pressing need is to alleviate some of the burden on the healthcare system and physicians by equipping the general population with the tools to make their own rapid and accurate diagnoses. While there will always be a need for physicians to treat complicated diseases, manage treatment regimens, and perform surgeries, there are several aspects of the current healthcare system that can be streamlined.

- By introducing more versatile molecular diagnostic tools for the general public, individuals will be able to manage many unique aspects of their own healthcare, bypassing in many instances costly and time-consuming clinic visits.
- As a Ph.D. student at Stanford, Dr. Hall and his research partner developed a nanoLAB - a novel portable diagnostic device that reads protein concentrations in bodily fluids to detect the presence of AIDS, cancer, heart disease, etc.
- The device is 20 times more sensitive than existing diagnostic tools and delivers results in 15 minutes, eliminating the need to travel...

AFFILIATION

-  University of California, San Diego

EDUCATION

- Ph.D. in Electrical Engineering 2011, Stanford University, M.S. in Electrical Engineering 2008, Stanford University

AWARDS

- ISSCC ADI Outstanding Student Designer Award
- ARCS Fellowship
- 1st place Stanford BASES Business Plan Competition
- 1st place in BME-IDEA Invention Competition

RESEARCH AREAS

Life Science, Diagnostics, Telemedicine, IOT & Medical Devices

FUNDING REQUEST

Your donations will help secure Dr. Hall's research in advancing medical diagnostics and electronics along with supporting current researchers, both undergraduate and graduate levels. With researchers spending over half their time seeking government grants and private funding, your donations will keep Dr. Hall's research at the forefront.

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